

SECTION - B**6 × 4 = 24**

- Note :** (i) Answer any six questions.
(ii) Each question carries four marks.
(iii) All are "short answer" type questions.

11. A car travels the first third of a distance with a speed of 10 kmph, the second third at 20 kmph and the last third at 60 kmph. What is its mean speed over the entire distance ?
12. If $|\vec{a} + \vec{b}| = |\vec{a} - \vec{b}|$, prove that the angle between $\vec{a}$ and $\vec{b}$ is 90° .
13. Mention the methods used to decrease friction.
14. Distinguish between centre of mass and centre of gravity.
15. Define angular acceleration and torque. Establish the relation between angular acceleration and torque.
16. What is escape velocity ? Obtain an expression for it.
17. Describe the behaviour of a wire under gradually increasing load.
18. In what way is the anomalous behaviour of water advantageous to aquatic animals ?

SECTION - C**2 × 8 = 16**

- Note :** (i) Answer any two of the following questions.
(ii) Each question carries eight marks.
(iii) All are "long answer" type questions.

19. (a) Develop the notions of work and kinetic energy and show that it leads to work-energy theorem.
(b) A machine gun fires 360 bullets per minute and each bullet travels with a velocity of 600 m/sec. If the mass of each bullet is 5 gm, find the power of the machine gun.
20. Show that the motion of a simple pendulum is simple harmonic and hence derive an equation for its time period. What is seconds pendulum ?
21. Explain reversible and irreversible processes. Describe the working of Carnot engine. Obtain an expression for the efficiency.

14 September Physics Question Paper

James Driver



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How Experiments End Peter Galison, 1987-10-15 Preface 1

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Appendix Authors of Papers on Neutral Currents Abbreviations for Archival Sources Bibliography Index **Nuclear Science Abstracts** ,1975 **VINČA ANNUAL REPORT 2001** Крунослав Суботић,Божидар Џекић,Драган

Бабић,2016-03-24 *Protection of Materials and Structures from Space Environment* J. Kleiman,Zelina

Iskanderova,2006-03-09 This publication presents the proceedings of ICPMSE 6 the sixth international conference on Protection of Materials and Structures from Space Environment held in Toronto May 1 3 2002 The ICPMSE series of meetings became an important part of the LEO space community since it was started in 1991 Since then the meeting has grown steadily attracting a large number of engineers researchers managers and scientists from industrial companies scientific institutions and government agencies in Canada U S A Asia and Europe thus becoming a true international event This year s meeting is gaining even stronger importance with the resumption of the ISS and other space projects in LEO GEO and Deep Space To reflect on these activities the topics in the program have been extended to include protection of materials in GEO and Deep Space The combination of a broad selection of technical and scientific topics addressed by internationally known speakers with the charm of Toronto and the hospitality of the organizers brings participants back year after year The conference was hosted and organized by Integrity Testing Laboratory Inc ITL and held at the University of Toronto s Institute for Aerospace Studies UTIAS The meeting was sponsored by the Materials and Manufacturing Ontario MMO and the

CRESTech two Ontario Centres of Excellence Air Force Office of Scientific Research AFOSR NL MD Robotics EMS Technologies The Integrity Testing Laboratory ITL and the UTIAS *Inverse Dynamics Problems* Hamed Kalhori, 2021-06-15

The inverse dynamics problem was developed in order to provide researchers with the state of the art in inverse problems for dynamic and vibrational systems. Contrasted with a forward problem which solves for the system output in a straightforward manner, an inverse problem searches for the system input through a procedure contaminated with errors and uncertainties. An inverse problem with a focus on structural dynamics determines the changes made to the system and estimates the inputs including forces and moments to the system utilizing measurements of structural vibration responses only. With its complex mathematical structure and need for more reliable input estimations, the inverse problem is still a fundamental subject of research among mathematicians and engineering scientists. This book contains 11 articles that touch upon various aspects of inverse dynamic problems.

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